VETTA

# SOLAR FLARE

*Solar Powered Cycling Computer*

Item #: 500-111

www.vetta-china.com

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## WARNINGS & CAUTIONS

It is recommended that the product is to be installed by a qualified bicycle retailer. Failure to read the instructions and / or improper installation of the device may void the warranty. If you have any doubts about the installation or the operations, contact your local bicycle retailer for clarification.

## INTRODUCTION

The Solar Flare utilizes solar cells to power the computer in order to minimize impact on our environment. In addition to being greener than conventional cycling computers, the Solar Flare is also more convenient because it allows users to stop worrying about battery life.

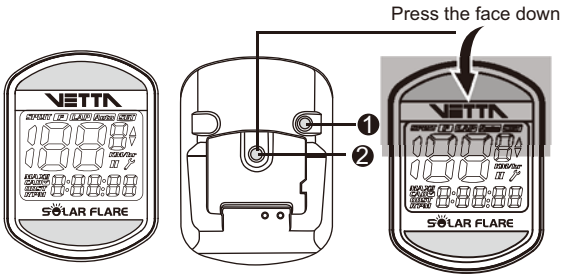
Buttons have been eliminated from the face of the Solar Flare. Instead, users simply press the face down on the upper portion of the display to activate the rear mounted button and cycle through the array of functions featured on the Solar Flare.

## FUNCTIONS & FEATURES

| Features & Functions | Solar Flare |
|---|---|
| Heavy-Duty Wired Speed | √ |
| Service Timer | √ |
| Speed Comparator | √ |
| Speed (Current / AVG / MAX) | √ |
| Ride Time | √ |
| Cumulative Odometer | √ |
| Trip Distance | √ |
| EZ Tire Setup | √ |
| 12/24 Hour Clock | √ |

## ILLUSTRATIONS

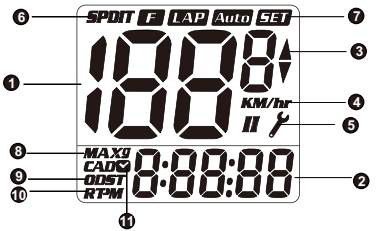
### Head Unit




1. Button ❶  2. Button ❷

**Note:** When the computer is mounted on the bike, simply press the face down on the upper portion of the display to activate Button ❷.

## LCD Display




1. Upper Display (Speed)
2. Lower Display (Time / Clock)
3. Speed Comparator
4. Speed / Distance Units
5. Service Timer
6. Speed Icon
7. Setup Mode Icon
8. Max./ AVG Icon
9. Odometer / Distance Icon
10. RT / PM Icon
11. Time Icon

## BUTTON FUNCTIONS

**In Set Up Mode**

Button ❶: Switch between settings and scroll through values(0~9).

Button ❷: Select or set a value and advance to the next digit or Mode.

**In Operation Mode**

**Press momentarily**

Button ❶ : Cycle through top screen.

Button ❷ : Press Upper portion of screen to cycle through lower screen views.

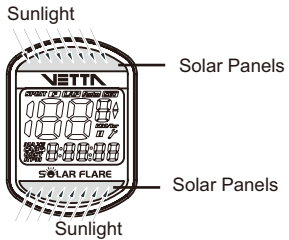
**Press & hold for 2 seconds**

Button ❶ when the lowest screen is in the CLK Mode: NOM Setup.

Button ❷ when the lowest screen is in the DST Mode: Reset ride data to zero.

Button ❶ & ❷: All Clear Total Reset

## BATTERY INTRODUCTION




Solar Flare utilizes solar power and a CR2032, 3.6 Volt Rechargeable Lithium Ion battery. When sunlight shines onto the solar panels (on both upper and lower portions of the computer), it charges the battery and provides power to the computer.

**Note:**

• The battery is factory installed and has a shelf life of

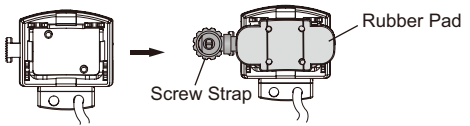
2 months without exposure to sunlight.

- The CR2032 rechargeable lithium Ion battery will provide power to the computer when sunlight is not available (during storage or evening).

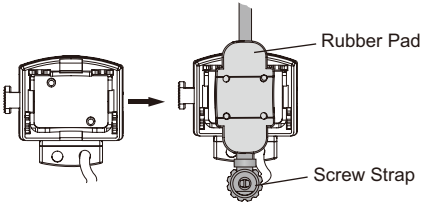
## INSTALLATION

### Mounting Bracket

Install Screw Strap & Rubber Pad to the Mounting Bracket

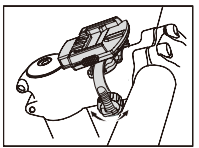



**Mounting Bracket to be mounted on the stem**

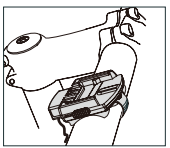



**Mounting Bracket to be mounted on the handle bar**

### Install the Mounting Bracket



On the Stem

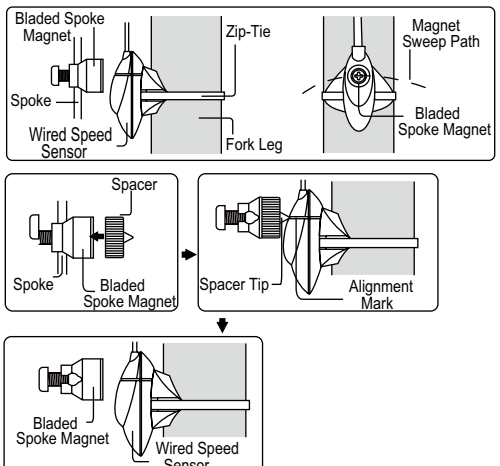


On the Handle Bar

Attach Mounting Bracket to the handlebar on the “Sensor side” or on the stem as shown in the pictures above.

Adjust its position so it can be read while riding and then tighten the Screw Strap.

**Wired Speed Sensor & Magnet**



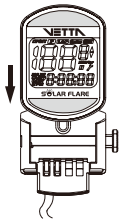

1. Attach the wired speed sensor with the zip-ties supplied.
2. Tighten the bladed spoke magnet to the bicycle.
3. Adjust the sensor & magnet spacing with the spacer.
4. Remove the spacer after tightening the zip-ties down to hold the sensor in its final position.

**Note:** Mount the sensor as high up on the fork leg as possible.

**Important:** Use the tape provided in the package rather than the Zip-Ties to hold wires to the frame, fork, and bars or stem to avoid damaging or cutting the wires accidentally. Make sure excess wire is taped down or wrapped around brake cable housing to secure it.

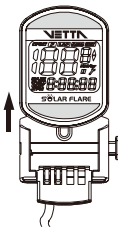
**Note:** Be sure to leave enough slack in the wire to accommodate the movement of the fork.

**Head Unit**




Slide the Head Unit into the Mounting Bracket as shown until it clicks into position.

**Detaching the Head Unit**




Slide out the Head Unit by pressing the Locking Tab simultaneously

## INSTALLATION TESTS

**To test the Speed Sensor installation**

Pick up the front of the bicycle and spin the front wheel. The LCD should display a speed reading within 2-3 seconds.

If there is no speed reading, check the alignment and spacing between the magnet and sensor. Make sure that the Head Unit is completely locked into position. If the problem has not been fixed, go to http://www.vetta.com/support/support.asp or talk to an authorized Vetta Retailer for additional support.

Once the sensor is aligned, tighten the magnet locking screw and bike mount strap.

## SETUP & PROGRAMMING

In Setup:

- Button ❶ is used to switch between settings and to scroll through values(0~9).
- Button ❷ is used to select or set a value and to advance to the next digit or mode.

**Initial Setup**

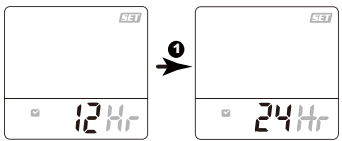
- Press either button to exit Shelf Mode and enter the Initial Setup when first use this cycling computer.

**Note:** In Shelf Mode, there is nothing shown in the LCD screen.

**NOM Setup**

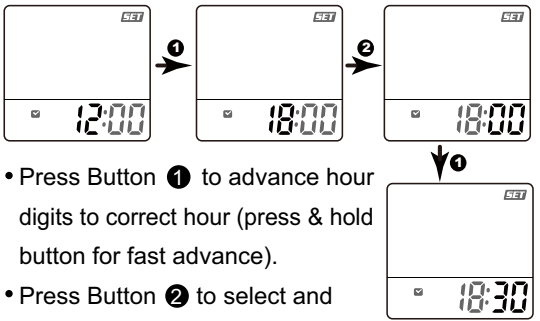
- To enter the NOM Setup Mode, press & hold Button ❶ when the lowest screen is in the CLK Mode.
- The computer will automatically exit the Setup Mode after complete all the basic settings.

**SETUP: 12/24 CLOCK**



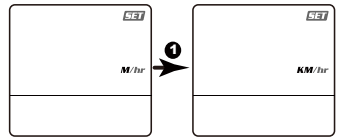

- Press Button ❶ to toggle between flashing 12 and 24 hour formats.
- Press Button ❷ to select your desired format (without PM icon implies AM in 12 hour format) and advance to Time setting.

## SETUP: TIME




- Press Button ❶ to advance hour digits to correct hour (press & hold button for fast advance).
- Press Button ❷ to select and advance to minute setting.
- Press Button ❶ to advance minute digits to correct minute.
- Press Button ❷ to select and advance to the next Setup Mode.

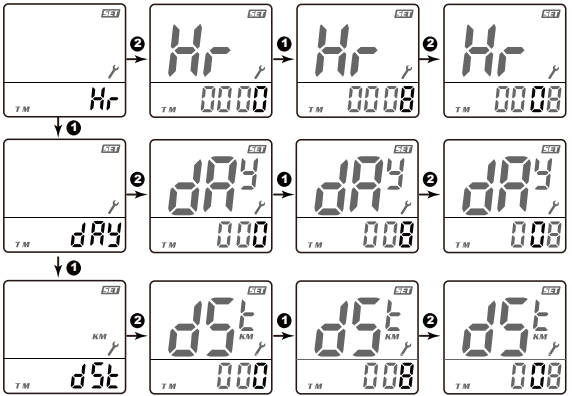
## SETUP: SPEED/ DISTANCE UNIT




- Press Button ❶ to toggle between flashing M/hr and KM/hr.
- Press Button ❷ to select and advance the next Setup Mode.

**Note:** If the ride data is NOT cleared before entering the Setup Mode, they will be automatically converted to values based upon the new Speed / Distance Unit.

## SETUP: SERVICE TIMER




Service Timer could be programmed with a selected number of ride time (hours or days) or distance as the interval for servicing the bicycle or any component on it, such as a front or rear shock.

The default settings “0000” means the Service Timer is turned off.

### Choose the Service Timer Unit

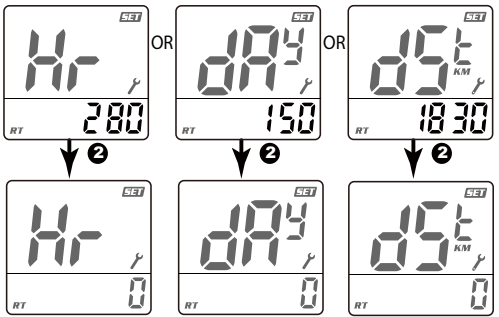
- Press Button ❶ to scroll and select Hr(hour), dAY(day) or dSt(distance) as the Service Timer Unit.
- Press Button ❷ to confirm the selection of Serveice Timer Unit.

### When the desired Service Timer unit has been chosen

- Press Button ❶ to scroll the flashing digit to the desired number.
- Press Button ❷ to select this number and advance to next digit. Repeat this procedure until all digits are set.
- Press Button ❷ to advance to the next Setup Mode.

(Maximum settings: hour / day / distance =1999/199/9999)

**Reset Service Timer to Zero**




When the Ride Time (the elapsed time for Service Timer) begins to flash

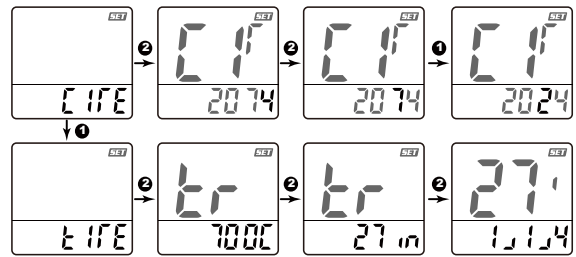
- Press Button ❶ to reset to zero;

**OR**

- Press Button ❷ to reserve the digits, and advance to the next Setup Mode.

**Important:** In the Initial Setup, the elapsed time / distance for Service Timer does not exist.

**SETUP: WHEEL / TIRE SIZE**




- Press Button ❶ to toggle between flashing **CIRC** (Circumference) and **TIRE** (Tire Type).
- Press Button ❷ to confirm selection and continue the settings.

**If you choose CIRC (Circumference) (See Table of Tire Size Vs Circ)**

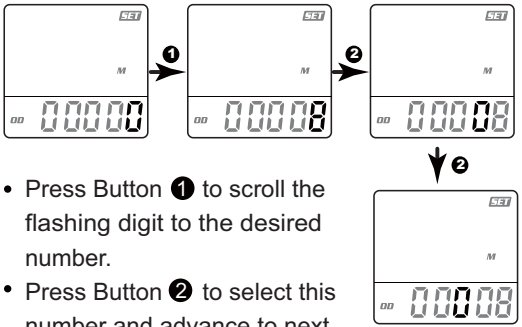
- Press Button ❶ to adjust the falshing digit to the desired number.
- Press Button ❷ to select this number and advance to next digit.
- Repeat this procedure until all four digits are set.

**If you choose TIRE (Tire Size)**

- Press Button ❶ to scroll through the falshing 700c, 650c,27in,26in,24in,22in,20in,16in or 12in and select the wheel size.
- Press Button ❷ to select and advance to next setting to complete the Tire Size.
- Again, press Button ❶ to scroll and press Button ❷ to finalize the Tire Size and advance to the next Setup Mode.

| TIRE SIZE | CIRC | TIRE SIZE | CIRC |
|---|---|---|---|
| 700c x 38mm | 2180 | 26" x 2.25" | 2115 |
| 700c x 35mm | 2168 | 26" x 2.1" | 2095 |
| 700c x 32mm | 2155 | 26" x 2.0" | 2180 |
| 700c x 32mm | 2145 | 26" x 1.9/1.95" | 2055 |
| 700c x 28mm | 2136 | 26" x 1.75" | 2035 |
| 700c x 25mm | 2124 | 26" x 1.5" | 1985 |
| 700c x 23mm | 2105 | 26" x 1.25" | 1953 |
| 700c x 20mm | 2074 | 26" x 1.0" | 1913 |
| 700c Tubular | 2130 | 24" x 1.9/1.95" | 1916 |
| 650c x 23mm | 1990 | 20" x 1.25" | 1618 |
| 650c x 20mm | 1945 | 16" x 2.0" | 1253 |
| 27" x 1.25" | 2161 | 16" x 1.95" | 1257 |
| 27" x 1.125" | 2155 | 16" x 1.5" | 1206 |
| 26" x 2.3" | 2135 | | |

**SETUP: ODOMETER**




- Press Button ❶ to scroll the flashing digit to the desired number.
- Press Button ❷ to select this number and advance to next digit. Repeat this procedure until all five digits are selected
- Press Button ❷ to advance to next Setup Mode. (Maximum setting: 99999).

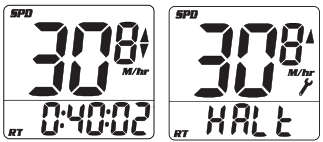
## FUNCTIONS

- Press Button ❶ to change the Upper Screen Modes.
- Press Button ❷ to change the Lower Screen Modes.
- To enter the NOM Setup Mode, press & hold Button ❶ for 2 seconds when the lowest screen is in the CLK Mode.
- To reset all ride data to zero, press & hold Button ❷ for 2 seconds when the lowest screen is in the DST Mode.

**SPD**

Speed is shown at all times on the upper display. It is accurate to 0.1 M/hr or KM/hr and the maximum reading is 139.9 M/hr or 199.9 KM/hr.

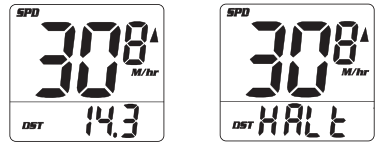
**RT**




RT displays actual, cumulative ride time to 100 hours. [If the time is less than 9:59:59 hours, the display format will be h:mm:ss, eg.0:09:59 means 9 minutes and 59 seconds. If the time is longer than 10 hours, the format will be hh:mm without seconds, eg 11:28 means 11 hours and 28 minutes ]

**Note:** When the Ride Time exceeds 99 hours and 59 minutes, the computer will stop recording new data, and the lower screen displays "**HALT**".

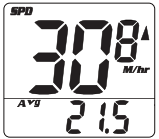
**DST**

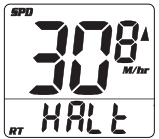



DST displays trip distance of current ride to a maximum of 999.9 miles or kilometers. It is accurate to 0.1 Mile or KM.

**Note:** When the Trip Distance exceeds 999.9 KM or Miles, the computer will stop recording new data, and the lower screen displays "**HALT**".

**AVG SPD**

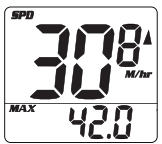


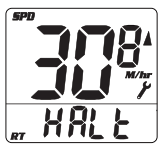




Average Speed is accurate to 0.1 M/hr or KM/hr.

**Note:** When the Ride Time exceeds 99 hours and 59 minutes, or the Trip Distance exceeds 999.9 miles [kilometers], the computer will stop recording new data, and the lower screen displays **"HALT"**.

**MAX SPD**

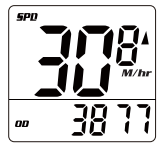



Maximum Speed is accurate to 0.1 M/hr or KM/hr.

**Note:** When the Ride Time exceeds 99 hours and 59 minutes, or the Trip Distance exceeds 999.9 miles [kilometers], the computer will stop recording new data, and the lower screen displays **"HALT"**.

**ODO**



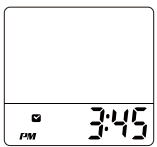

The odometer displays distance to 99999 Miles or Kilometers. It is accurate to 1.0 Mile or KM.

**CLK**

Time [Clock] is displayed in user-selected 12 or 24 hour formats.

## OTHER FEATURES

**SLEEP MODE**

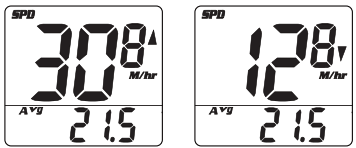



- Computer enters Sleep Mode after 5 minutes without input from any button or wheel, and displays the clock only.
- Computer exits Sleep Mode and returns to the screen last displayed when any button is pressed or the wheel turns.

**SERVICE TIMER (🔧)**

Blinking "🔧" alerts riders when the Service Time is reached.

**SPEED COMPARATOR (▲▼)**




Speed Comparator: Arrow symbols indicate if current speed is slower ▼ or faster ▲ than current average speed.

## ALL CLEAR TOTAL RESET

All data entered in the Setup Modes, as well as ride data can be cleared by performing an All Clear Total Reset. To clear the computer, press & hold Button ❶ & ❷ simultaneously for 3 seconds in any Mode. The master screen will appear and show all segments, then automatically enter the Setup Mode.

## TROUBLE SHOOTING

- **Current speed-reading is erratic or does not appear.** Check the alignment of the bladed spoke magnet and sensor, and the distance between the two components. **OR** Inspect the wiring for any breaks or kinks. Replace Mounting Bracket and sensor as needed.

- **Incorrect data appears on screen during operation.** Accuracy of the Setup data may be a problem (wheel size setting, etc.).

- **Data display is extremely slow.** Computer LCD screen operates the best under the following temperature range: Operating range is: 0˚C to 50˚C or 32˚F to 122˚F.

- **Screen is dark and display erratic characters.**
  Do not leave the computer in direct sunlight for extended periods of time. Move the computer into the shade until the screen recovers.
  **Noted:** Data will not be affected.

- **Screen reading is weak or fading.**
  Symptom of a weak battery. Replace the battery.

- **Screen readings are erratic and read too high or too low.**
  Symptom of a weak battery. Replace the battery.

- **Screen "frozen", no response to buttons.**
  Symptom of a weak battery. Replace the battery.

- **No display whatsoever.**
  Battery is completely dead, or not installed. Replace or install the battery.



## WARRANTY POLICY

**ACUMEN INC.** WARRANTS ALL **VETTA** (The Company) PRODUCTS AGAINST MANUFACTURER DEFECTS FOR A PERIOD OF 3 YEARS. Subject to the following limitations, terms and conditions, components will be free of manufacturing defects in materials and workmanship. The 3 year limited warranty is conditioned upon the components being used and operated in normal riding conditions. This warranty does not cover normal wear and tear (i.e. battery replacement, broken wire), rider abuse, acts of God, improper installation or product alteration.

**This warranty is void if the components were not purchased (new) from or through an authorized VETTA retailer or dealer. Examples of unauthorized dealers are online auction sites or online retailers.**

**ACUMEN INC.** at its sole discretion will repair or replace items at its own cost. Users are responsible for all freight and shipping charges, when returning items for warranty service.

**ACUMEN INC.** will pay the freight when returning serviced items, via USPS or UPS to consumers or dealers, once the item(s) has been repaired or replaced.

**In USA,** securely pack and return the product prepaid to:

**Acumen Inc.,**
**101A Executive Drive Suite 100, Sterling, VA 20166 USA**

**REQUIREMENTS FOR WARRANTY SERVICING**

1. Prior to shipping an item back, you must first obtain a Return Authorization Number (s) (RA#). Each item item being returned must have an individual RA#.



2. To obtain an RA #, you must either contact the retailer where the product was originally purchased from, or contact **VETTA** directly at customer service @ vetta.com.
3. We request that the complete unit with packaging be returned to ACUMEN INC. unless otherwise stated by **VETTA** representative.

**ITEMS TO BE INCLUDED IN RETURNS**

1. The defective product(s)
2. A letter clearly stating the problem(s) with the returned item(s).
3. Copy of the original sales receipt showing proof of purchase date.
4. The Company is not responsible for loss or additional damages while in transit to **ACUMEN INC**.
5. Clearly mark the RA# on the outside of the return packaging. All items without an RA # will be refused and returned to the return address on the package.

The Company shall not be held responsible for replacing items with new items for greater than the amount of the original item purchase price. This limited warranty does provide the original owner with certain legal rights and recourse. The original owner may possess other rights or recourse, depending on the state or country. Please check the web to help answer any question and service manual.

**Outside USA,** you should contact the local dealer or Vetta distributor in your country for customer service.

**Email: customerservice@vetta.com**
**Website: www.vetta.com**

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